

## ABSTRACT

An enzyme electrode comprises a conductive member and an enzyme, wherein a first mediator and a second mediator are immobilized by a carrier onto the conductive member, the first mediator and the second mediator having different redox potentials (reduction-oxidation potentials). A sensor employs the enzyme electrode as a detection portion for detecting a substance. A fuel cell employs the enzyme electrode as at least one of anode and a cathode. An electrochemical reactor employs the enzyme electrode as a reaction electrode.